

401327

PH-I/4 (N)

2024

HUMAN ANATOMY AND PHYSIOLOGY

Time Allowed: 3 hours

Full marks:80

20 X 1 = 20

1. Answer the following:

- i) Study of cell is called as-
a) Arthrology b) Histology c) Mycology d) Cytology
- ii) Fertilization of an ovum takes place in
a) Cervix b) Fallopian tube c) Uterus d) Ovary
- iii) Bile is stored in -
a) Gallbladder b) Liver c) Stomach d) Pancreas
- iv) Largest gland in the Body is
a) Pituitary gland b) Liver c) Spleen d) Heart
- v) Which is called Pacemaker of the Heart?
a) A-V node b) S-A node c) Bundle of His d) Purkinje fibre
- vi) Which part of the body is called voice box?
a) Pharynx b) Larynx c) Epiglottis d) Pineal gland
- vii) Appearance of blood in urine is called-
a) Haemolysis b) Haematuria c) Haemopoiesis d) Haemostasis
- viii) Which one of the following blood group is considered as universal donor?
a) A b) B c) AB d) O
- ix) Proteolytic enzyme in gastric juice is _____.
- x) The unit of kidney is known as _____.
- xi) Left lung has _____ lobe.
- xii) ESR in blood stands for _____.
- xiii) The normal lifespan of RBCs is _____.
- xiv) Thyroid gland secretes triiodothyroxine, _____ and calcitonin.
- xv) Gigantism is caused by _____.
- xvi) The unit of B.P. is _____.
- xvii) Bone is a _____ tissue.
- xviii) The largest bone of human body is _____.
- xix) Diabetes Incipidus happens due to deficiency of _____.
- xx) Pepsinogen is converted to pepsin in presence of _____.

2. Answer any 10 (Ten) questions:

- a) What do you know about Cardiac Cycle?
- b) Functions of Liver
- c) Describe reflex arc with diagram.
- d) Classify nervous system.
- e) Describe the mechanism of Respiration.
- f) Write down the functions of Progesterone, FSH and LH.

[10 X 3 = 30]

- g) Write down the names and functions of three salivary glands.
- h) Write the names and functions of hormones secreted from the adrenal gland.
- i) Compare Exocrine and Endocrine gland.
- j) Define vital capacity, expiratory reserve volume of lung, tidal volume of lung.
- k) Write the full form of RBC, WBC, ANS, TSH, GIT and GFR.
- l) Write a note on muscle contraction.

3. Answer any 6 (six) questions:

6 X 5 = 30

- a) Write the process of blood flow through heart with diagram.
- b) Define cardiac output. Describe Blood Coagulation.
- c) Write a note on Anaemia.
- d) Draw and label human eye.
- e) Write the hormones of pancreas and their functions.
- f) How many numbers of spinal nerves in human? Enlist the names of Cranial nerves.
- g) Write about the mechanism of urine formation.
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